

PRAKADEESH KOOSI SUBRAMANI

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About

Aspiring AI/ML Engineer and NLP Engineer with strong skills in Machine Learning, Natural Language Processing, Deep Learning, and Web Development. Proficient in Python, modern AI frameworks, and problem-solving, with the ability to develop and deploy full-scale AI projects and solutions that drive innovation and impact.

Education

RMK College of Engineering and Technology, Pudukkottai

2021 – 2025

Bachelor of Engineering in the branch of Computer Science and Engineering

GPA: 8.51/10

Projects

NLP-Powered Resume Parser + Job Matcher (DeepMatch-X)

[github](#)

- Developed an **NER-based resume parser** and **job description matcher** using **spaCy** and **Transformers**.
- Extracted entities and generated **embeddings** to compute **similarity scores** between resumes and job descriptions.
- Implemented multiple similarity metrics, including **cosine similarity**, for robust matching.
- Technologies: Python, spaCy, Hugging Face Transformers, cosine similarity.

Multilingual Neural Machine Translation (SpanGlishNet)

[github](#)

- Preprocessed **Spanish-English parallel datasets** and evaluated multiple **pretrained translation models**.
- Assessed performance using **BLEU**, **ROUGE**, and **METEOR** metrics with visualization.
- Designed an interactive translation interface using **Streamlit** and deployed the application on **Hugging Face Spaces** for public access.
- Technologies: Python, Hugging Face, TensorFlow, Streamlit.

AI-Powered Chrome Extension Summarizer (TL;DR Bot)

[github](#)

- Built a **Chrome extension** with a **FastAPI** backend to summarize highlighted webpage text.
- Implemented draggable and collapsible summary panels using **JavaScript** and **Shadow DOM**.
- Technologies: JavaScript, FastAPI, Python, Hugging Face Transformers.

Technical and Interpersonal Skills

- Programming Languages:** C, Python, Java
- AI/ML & Data Science:** scikit-learn, TensorFlow, Keras, PyTorch, OpenCV, NLTK, Hugging Face Transformers, spaCy, Matplotlib, Seaborn
- Web Development:** HTML, CSS, React, Vite, Node.js, Tailwind CSS, Django, FastAPI, Streamlit, JavaScript
- Tools & Platforms:** Git, GitHub, Jupyter, Google Colab, VS Code, Docker
- Databases:** PostgreSQL, MySQL
- Interpersonal:** Networking, Adaptability, Communication, Leadership and Team Building, Decision-Making

Certifications

- Machine Learning Specialization | [Coursera](#)
- Deep Learning Specialization | [Coursera](#)
- Natural Language Processing Specialization | [Coursera](#)
- TensorFlow Developer Professional Certificate | [Coursera](#)

Co-curricular and Extracurricular

- AVINYAA'22:** Secured first price in the event **ANALYTICON** on national level symposium held on 14th November 2022, at R.M.D Engineering College.
- DRESTEIN'22:** Secured first price in the event **Coding and Debugging** on Technical Fest on 18th November 2022, at Saveetha Engineering College.
- T.A.L.O.S 3.0:** Completed the **Computer Vision/Large Language Models workshop** held on 26th September 2023, at Chennai Institute of Technology.
- National Level Seminar:** Actively participated in national level seminar on **"Navigating the Cloud Security Frontier: Unravelling the Challenges in Cloud Computing"** organized by R.M.K College of Engineering and Technology on 6th October 2023.